

CLAIMS

We claim:

- 1 1. A system comprising:
2 a memory storing a compressed image as a codestream in a first
3 progression order;
4 a progression order conversion parser to convert the codestream from
5 the first progression order to a second progression order different than the
6 first progression order.
- 1 2. The system defined in Claim 1 wherein the parser converts the
2 codestream from the first progression order to an intermediate progression
3 order and from the intermediate progression order to the second
4 progression order.
- 1 3. The system defined in Claim 2 wherein the intermediate
2 progression order comprises a Layer-resolution-component-position
3 progression of JPEG 2000.

1 4. The system defined in Claim 3 when the first progression order
2 is one of the following group of JPEG 2000 progression orders: resolution-
3 layer-component-position progression; resolution-position-component-layer
4 progression; component-position-resolution-layer progression; and position-
5 component-resolution-layer progression.

1 5. The system defined in Claim 1 wherein the parser:
2 determines where packets exist in the codestream based on at least
3 one marker;
4 creates a structure specifying components in each packet; and
5 reorders packets in the codestream using the structure to map the
6 first progression order to the second progression order.

1 6. The system defined in Claim 1 wherein the parser, in response
2 to receiving a request, performs the conversion and sends the codestream in
3 the second progression order.

1 7. The system defined in Claim 6 wherein the memory is part of a
2 server that serves the image in response to requests.

1 8. The system defined in Claim 7 wherein the server comprises a
2 web server.

1 9. The system defined in Claim 1 wherein the codestream is a
2 JPEG 2000 codestream.

1 10. A method comprising:
2 storing a compressed image as a codestream in a first progression
3 order;
4 converting the codestream from the first progression order to a
5 second progression order different than the first progression order.

1 11. The method defined in Claim 10 wherein converting the
2 codestream comprises converting the codestream from the first progression
3 order to an intermediate progression order and from the intermediate
4 progression order to the second progression order.

1 12. The method defined in Claim 11 wherein the intermediate
2 progression order comprises a Layer-resolution-component-position
3 progression of JPEG 2000.

1 13. The method defined in Claim 12 when the first progression
2 order is one of the following group of JPEG 2000 progression orders:
3 resolution-layer-component-position progression; resolution-position-
4 component-layer progression; component-position-resolution-layer
5 progression; and position-component-resolution-layer progression.

1 14. The method defined in Claim 10 further comprising:
2 determining where packets exist in the codestream based on at least
3 one marker;
4 creating a structure specifying components in each packet; and
5 reordering packets in the codestream using the structure to map the
6 first progression order to the second progression order.

1 15. The method defined in Claim 1 wherein converting the
2 codestream from a first progression order to the second progression order is
3 performed in response to receiving a request.

1 16. The method defined in Claim 15 wherein storing the
2 codestream occurs in a memory that is part of a server that serves the image
3 in response to requests.

1 17. The method defined in Claim 16 wherein the server comprises
2 a web server.

1 18. The method defined in Claim 10 wherein the codestream is a
2 JPEG 2000 codestream.

1 19. An article of manufacture comprising at least one recordable
2 media storing executable instructions thereon which, when executed by a
3 processing device, cause the processing device to:
4 store a compressed image as a codestream in a first progression order;
5 and

6 convert the codestream from the first progression order to a second
7 progression order different than the first progression order.

1 20. An apparatus comprising:
2 means for storing a compressed image as a codestream in a first
3 progression order; and
4 means for converting the codestream from the first progression order
5 to a second progression order different than the first progression order.